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PROVISIONAL APPLICATION

**NAPPY / DIAPER OR SANITARY /
INCONTINENCE PAD WITH
INBUILT SELF-ENVELOPING
DISPOSAL BAG**

**The invention is described in
the following statement:**

NAPPY / DIAPER OR SANITARY / INCONTINENCE PAD WITH INBUILT SELF-ENVELOPING DISPOSAL BAG

This invention relates to improvements in the disposal of nappies/diapers and sanitary/incontinence pads.

5 This invention describes a disposable nappy/diaper and sanitary/incontinence pad that contains a plastic bag with an inbuilt drawstring or tie-able plastic tags, which opens to wrap around and over the entire nappy/diaper and sanitary/incontinence pad.

10 The soiled nappy/diaper and sanitary/incontinence pad can then be sealed in its own in-built bag after use.

15 The system is designed to facilitate an easy, smell-free and hygienic disposal of a used nappy/diaper and sanitary/incontinence pad, this nappy/diaper or sanitary/incontinence pad makes it far more convenient to change a baby's nappy/diaper or when changing a sanitary/incontinence pad when travelling and on other occasions when it is not possible to change a baby in private or when disposal of the soiled nappy/diaper or sanitary/incontinence pad may not be immediately possible. This is due to everything that is required to clean the baby or person is being contained within the unit, which after the bag being released and expanded, the nappy/diaper and sanitary/incontinence pad is then sealed in the bag and so packed and neutralised for disposal when convenient.

25 The plastic bag is stored under two flaps at the bottom of the nappy. When the flaps are opened the bag is automatically released and envelope the entire nappy/diaper or sanitary/incontinence pad to enclose the soiled nappy/diaper or sanitary/incontinence pad. Also under the flaps that cover the bag are a number of pre-moistened baby or wet wipes. This facilitates the cleaning of the baby or person without the need for any additional baby wipes or the like. The bag itself is lightly scented and has odour neutralising properties.

30 In one form of the invention, the sealing system of the bag is performed by having 2 closure tabs at the free end of the bag which are integral to the sealing of the bag itself and that are approximately 50mm by 25 mm in size. These tabs are tied together in order to permanently seal said bag both from fluids and odours emanating from said bag.

35 In another form of the invention the sealing system on the bag is performed by a simple drawstring mechanism at the free end of the bag in order to permanently seal said bag both from fluids and odours emanating from said bag.

40 In another form of the invention and in any one, all or any combination thereof of the forms of the invention previously mentioned, there may be an inclusion of a number of pre-moistened baby or wet wipes.

45 The following drawings of one example of the invention, has been made to assist in the understanding of the novel process being employed.

BRIEF DESCRIPTION OF THE DRAWINGS:

50 FIG. 1 is an orthographic plan view of the exterior surface 5 of the nappy/diaper or sanitary/incontinence pad 6.

FIG. 2 is an environmental orthographic view showing nappy/diaper or sanitary/incontinence pad 6 and the compartment flap 1.

55 FIG. 3 is an isometric view taken along the lines of 2-2 of FIG. 1 with an expanded section of FIG. 3 to highlight the position of the fixing points P1 and P2 and where bag 4 fold Q and free end 9 of bag 4. Also displayed is non-permanent adhesive glue point 10

60 FIG. 4 is an environmental orthographic view showing the compartment flap 1 open pivoting around point Y-Y displaying the wet wipes 3 and compartment flap 2.

65 FIG. 5 is an isometric view taken along the lines of 2-2 of FIG. 1 with compartment flap 1 open and the wet wipes 3 accessible.

70 FIG. 6 is an environmental orthographic side view of the nappy/diaper or sanitary/incontinence pad 6 showing the compartment flap 1 open pivoting around point Y and compartment flap 2 open pivoting around point X, extending and expanding bag 4 to initiate the enveloping process of the nappy/diaper or sanitary/incontinence pad 6.

75 FIG. 7 is an environmental orthographic view of the nappy/diaper or sanitary/incontinence pad 6 showing the compartment flap 1 open and compartment flap 2 open, extending and expanding bag 4 around pivot point X to initiate the enveloping process of the nappy/diaper or sanitary/incontinence pad 6 with the tie tabs 4a and 4b being deployed.

80 FIG. 8 is an isometric view taken along the lines of 2-2 of FIG. 1 with compartment flap 1 and 2 open with bag 4 expansion initiated through the opening of compartment flap 2 being pulled downwards around pivot point X.

85 FIG. 9 is an orthographic side view of the nappy/diaper or sanitary/incontinence pad 6 showing the compartment flap 1 open and compartment flap 2 open, extending and expanding bag 4 around pivot point X to initiate the enveloping process of the nappy/diaper or sanitary/incontinence pad 6 with the tie tabs 4a and 4b being deployed.

90 FIG. 10 is an orthographic side view of the nappy/diaper or sanitary/incontinence pad 6 showing the compartment flap 1 open and compartment flap 2 open, extending and expanding bag 4 around pivot point X to initiate the enveloping process of the nappy/diaper or sanitary/incontinence pad 6 with the tie tabs 4a and 4b being deployed.

- 95 FIG. 11 is an orthographic side view of the nappy/diaper or sanitary/incontinence pad 6 with the bag nappy/diaper or sanitary/incontinence pad 6 having been completely enveloped by bag 4 and the tie tabs 4a and 4b having been tied and so enclosed permanently the bag 4 and its contents.
- 100 Referring to, and in figure by figure sequential order is FIG. 1 an plan view of the exterior surface 5 of the nappy/diaper or sanitary/incontinence pad 6 where compartment flap 1's pivot point Y-Y is displayed and also compartment flap 2's pivot point X-X. Also displayed in a partial cutaway section is the wet wipes 3 and bag 4, where FIG. 2 is an environmental view showing nappy/diaper or
- 105 sanitary/incontinence pad 6 in-situ and the compartment flap 1 and 2 closed with the bottom part of the elongated edge 8 of compartment flap 1. FIG. 3 is an isometric view taken along the lines of 2-2 of FIG. 1 with an expanded section FIG. 3a of FIG. 3 to highlight the position of the fixing points P1 and P2 and the non-permanent fixing point between compartment flap 2's outside and
- 110 end edge 7 and compartment flap 1's inner side. Also displayed is the free end 9 of the bag 4. Displayed in FIG. 3 is the inner side porous layer 11 of the nappy/diaper or sanitary/incontinence pad 6 and bag 4 transverse folding pivot point Q. At next stage in the display of the process of utilisation of the invention is FIG. 4, an environmental orthographic view showing the compartment flap 1
- 115 open and pivoting around point Y-Y displaying the wet wipes 3 and compartment flap 2 that is still un-opened, and FIG. 5 is an isometric view taken along the lines of 2-2 of FIG. 1 to clarify the process and internal components being affected and displayed with compartment flap 1 open and the wet wipes 3 accessible. The next stage in the deployment of the bag 4 is displayed in FIG. 6
- 120 as an environmental orthographic side view of the nappy/diaper or sanitary/incontinence pad 6 showing the compartment flap 1 open pivoting around point Y and compartment flap 2 open pivoting around point X, extending and expanding bag 4 to initiate the enveloping process of the nappy/diaper or sanitary/incontinence pad 6, and FIG. 7 is an environmental orthographic view
- 125 of the nappy/diaper or sanitary/incontinence pad 6 to clarify the process further showing the compartment flap 1 open and compartment flap 2 open, extending and expanding bag 4 around pivot point X to initiate the enveloping process of the nappy/diaper or sanitary/incontinence pad 6 with the tie tabs 4a and 4b having been deployed. To further clarify there is FIG. 8 an isometric view taken
- 130 along the lines of 2-2 of FIG. 1 with compartment flap 1 and 2 open with bag 4 expansion initiated through the opening of compartment flap 2 being pulled downwards around pivot point X and compartment flap 1 being fully extended and pivoting around point Y.
- 135 FIG. 9 is a side view of the nappy/diaper or sanitary/incontinence pad 6 showing the compartment flap 1 open and compartment flap 2 open, extending and expanding bag 4 around pivot point X to initiate the enveloping process of the partly folded nappy/diaper or sanitary/incontinence pad 6 with the tie tabs 4a and 4b being deployed. FIG. 10 is also a view of the nappy/diaper or
- 140 sanitary/incontinence pad 6 showing the compartment flap 1 open and compartment flap 2 open, extending and expanding bag 4 around pivot point X to continue the enveloping process of the partly folded nappy/diaper or sanitary/incontinence pad 6 with the tie tabs 4a and 4b being deployed and the bag 4 being half way around the nappy/diaper or sanitary/incontinence pad 6.

145 Lastly there is FIG. 11 and this is also an orthographic side view of the nappy/diaper or sanitary/incontinence pad 6 with the bag nappy/diaper or sanitary/incontinence pad 6 having been completely enveloped by bag 4 and the tie tabs 4a and 4b having been tied and so enclosed permanently the bag 4 and its contents for ease and comfort of disposal.

150 In another form of the invention and in any one all or any combination thereof of the forms of the invention previously mentioned, there may be an inclusion of a number of pre-moistened baby wipes or wet wipes 3.

155 The bags 4 material whether plastic or otherwise may vary in colour, manufacturing material, and sealing device as can the actual size of the bag 4 itself.

160 The flexible permanent and non-permanent adhesives are non-toxic and may vary as to safety requirements, manufacturing processes, and marketing requirements.

165 The enclosure material, dimensions, and adhesive fixing point 7, P1 and P2 locations may vary as to safety requirements, manufacturing processes, and marketing requirements.

170 The plastic bag 4 fastening tabs 4a and 4b and the elongated compartment flaps 1 and 2, as well as the compartment fixing points p1 and P2 may vary in dimensions, colour, manufacturing material, and locale on the nappy/diaper or sanitary/incontinence pad 6 itself depending on the size of the nappy/diaper or sanitary/incontinence pad 6, safety requirements, manufacturing processes, and marketing requirements.

175 Thus what has been described above is a nappy/diaper or sanitary/incontinence pad 6 with a drawstring or otherwise 4a and 4b sealing plastic bag comprising moist baby wipes or towelettes 3 to conveniently dispose of said nappy/diaper or sanitary/incontinence pad 6 in a hygienic and convenient manner.

180 It should be understood that the foregoing relates to only a limited number of preferred embodiments of the invention which have been shown by way of example only, and that it is intended to cover all changes and modifications of the examples of the invention herein chosen for the purpose of the disclosure, which do not constitute departures from the spirit and scope of the invention.

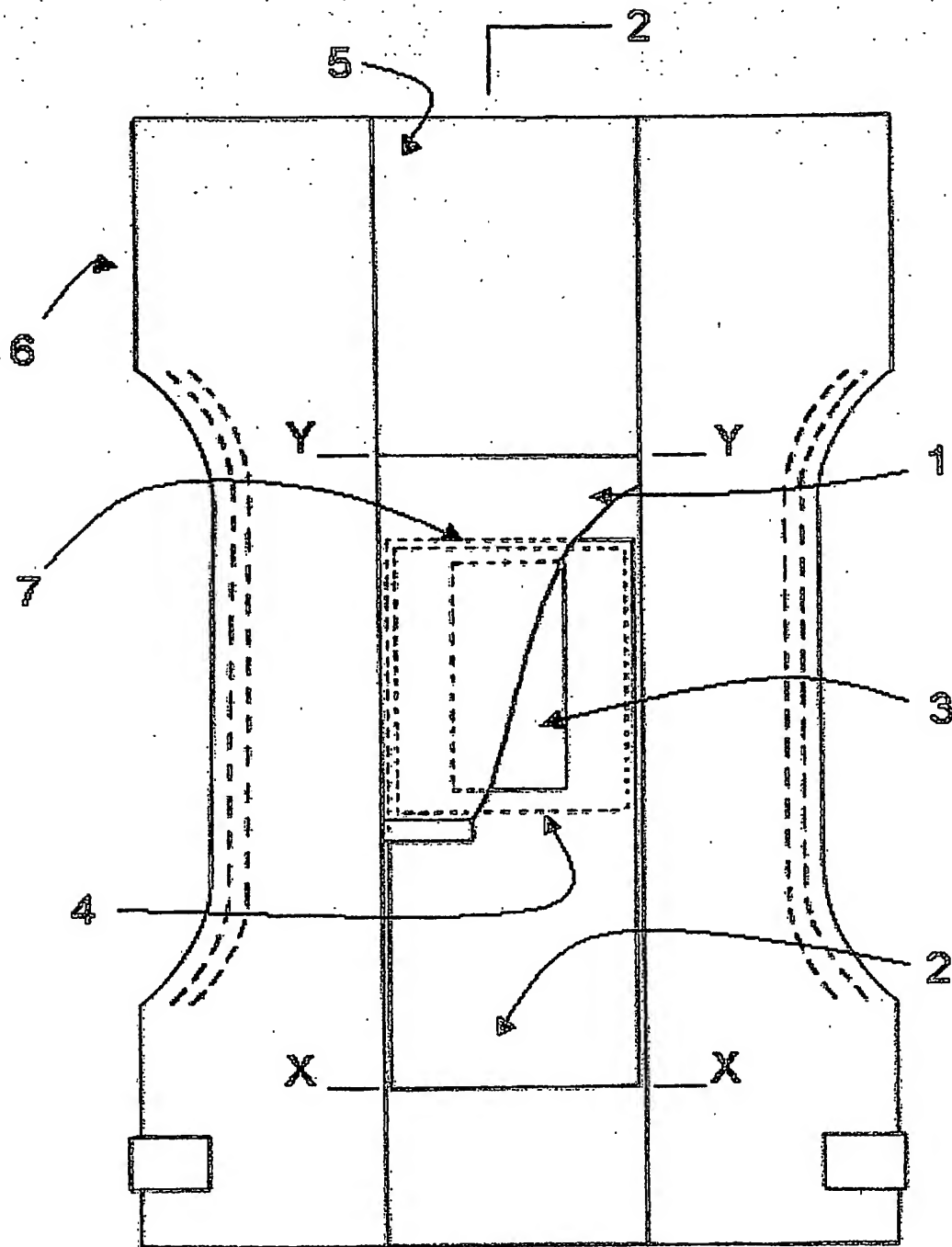


Figure 1

2



Figure 2

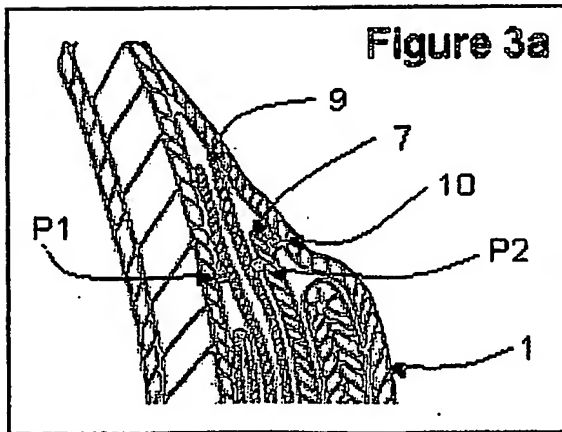
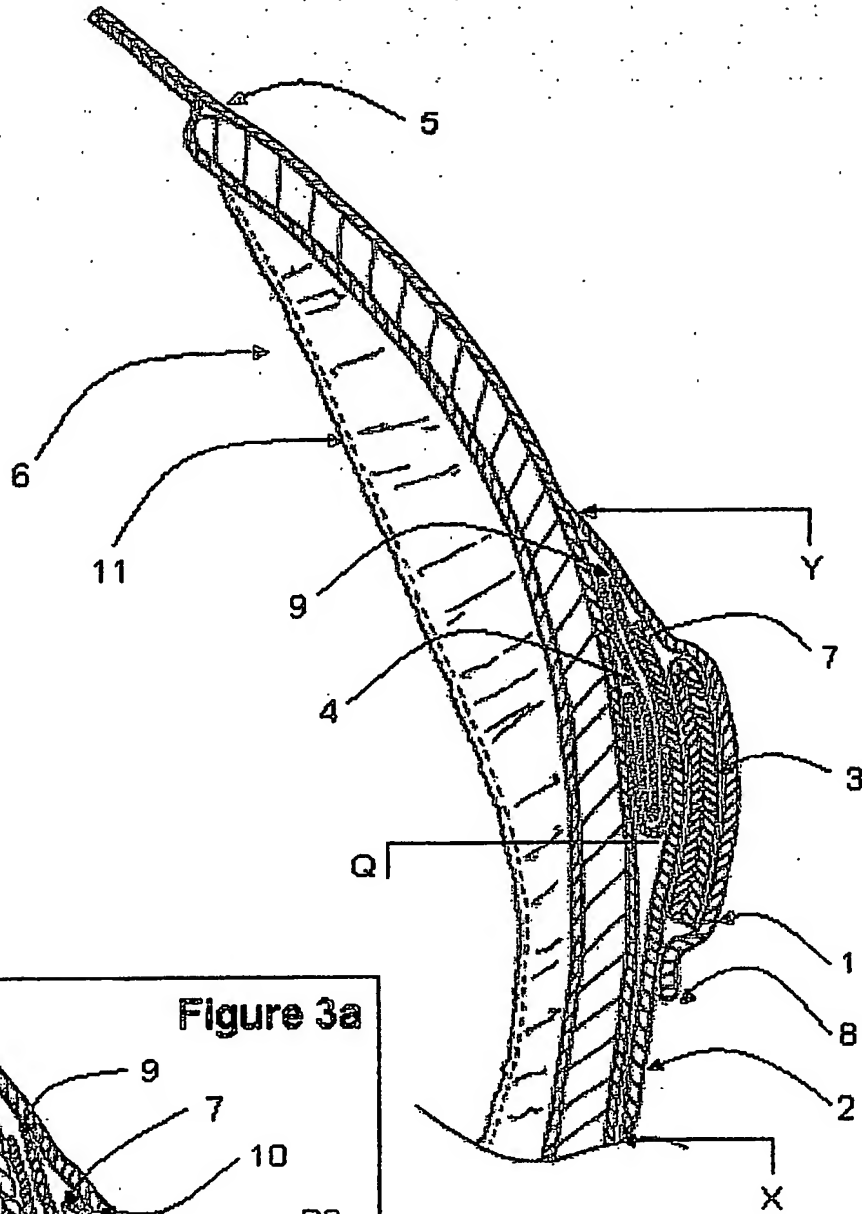


Figure 3

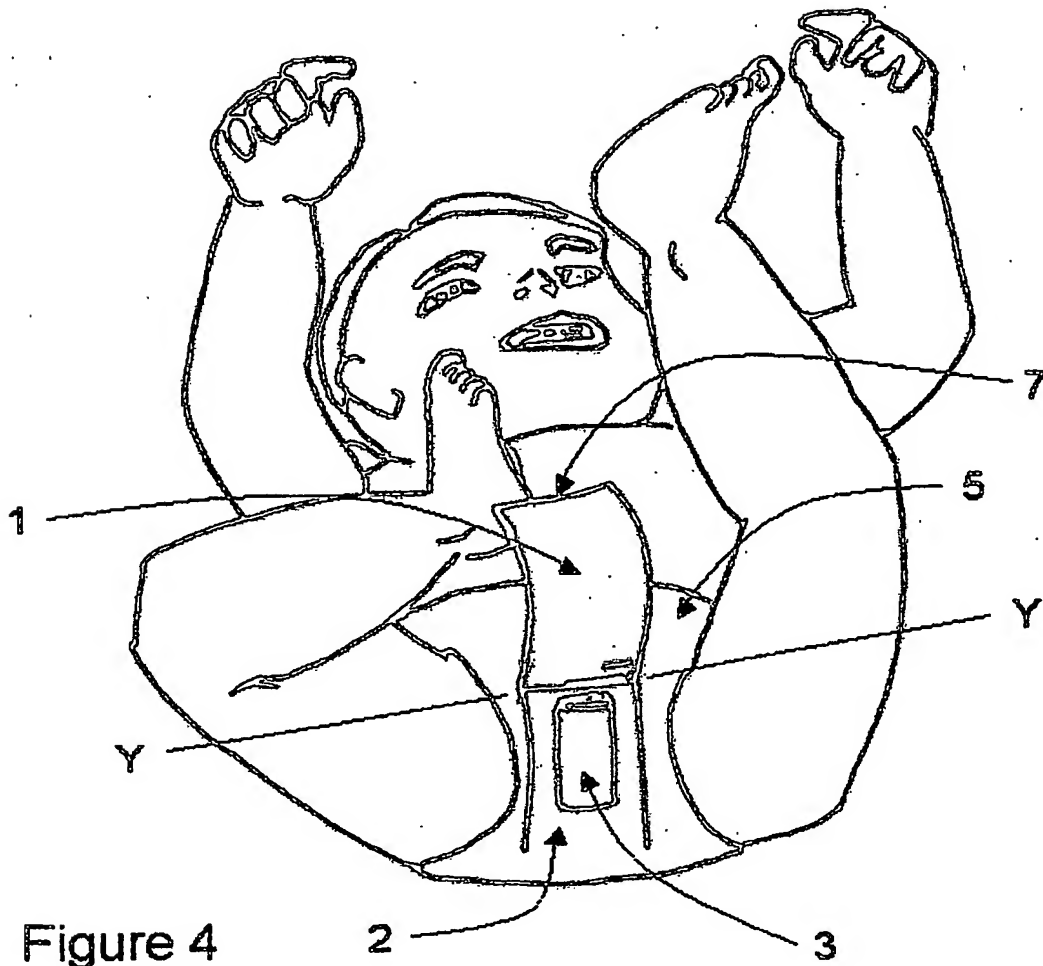
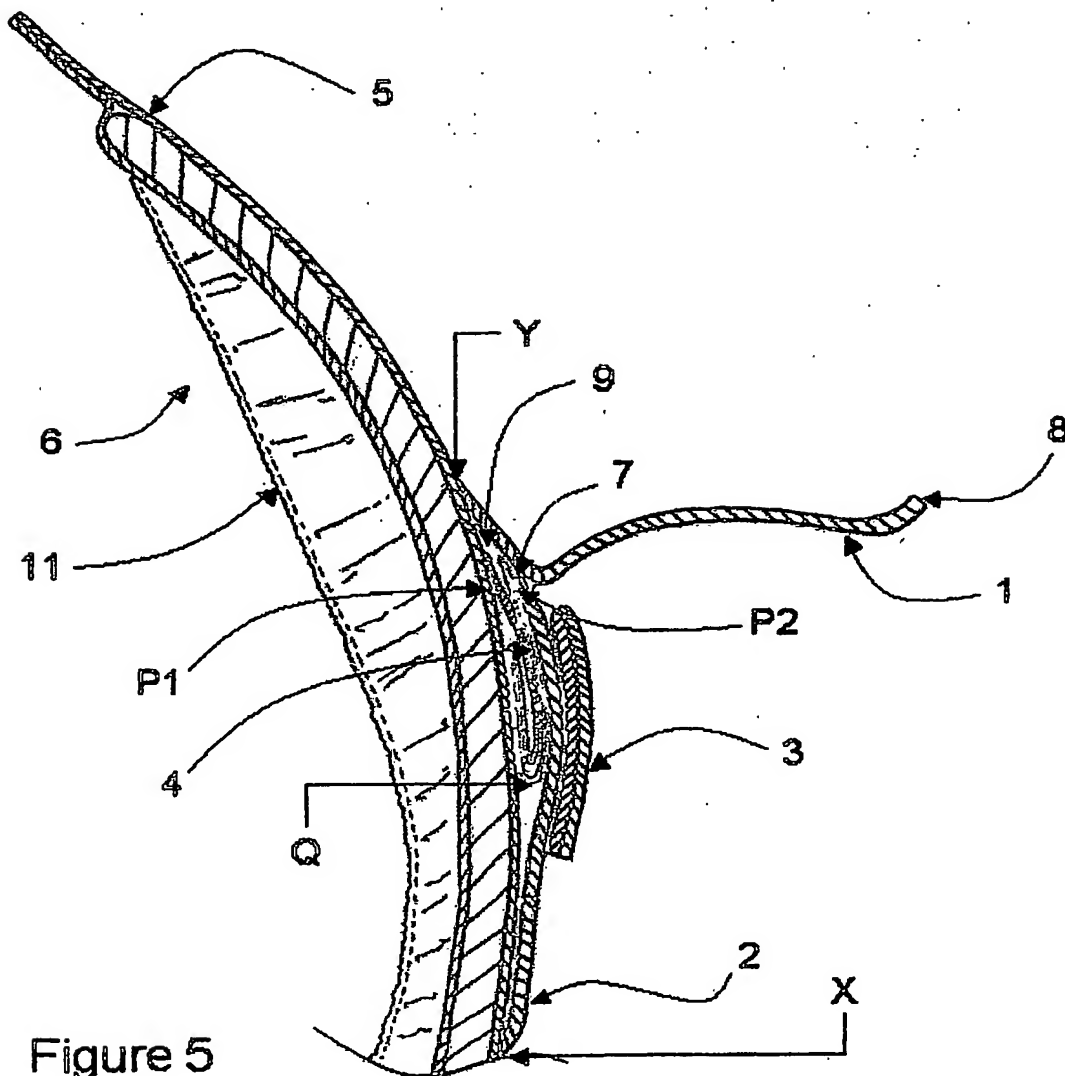


Figure 4



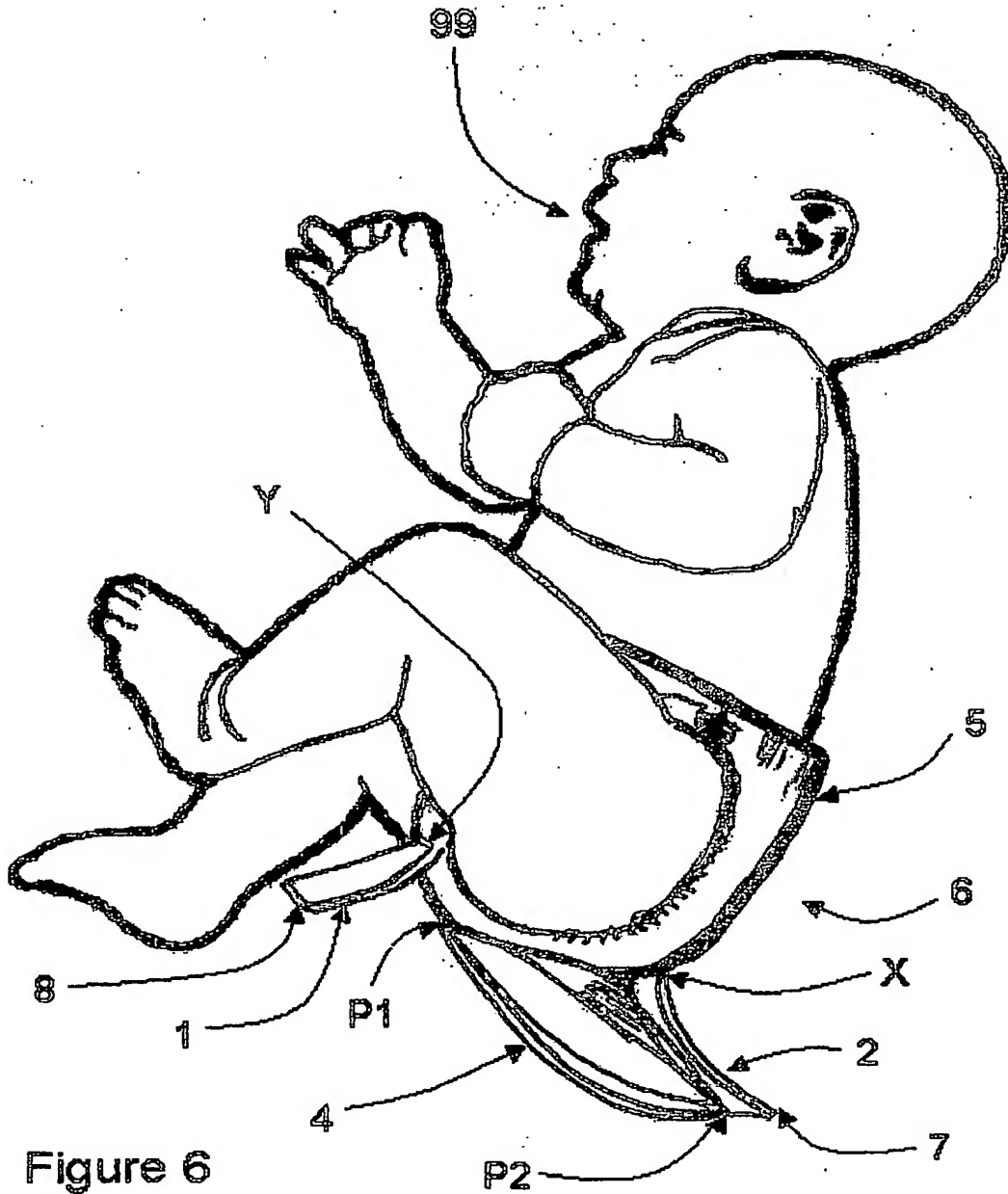


Figure 6

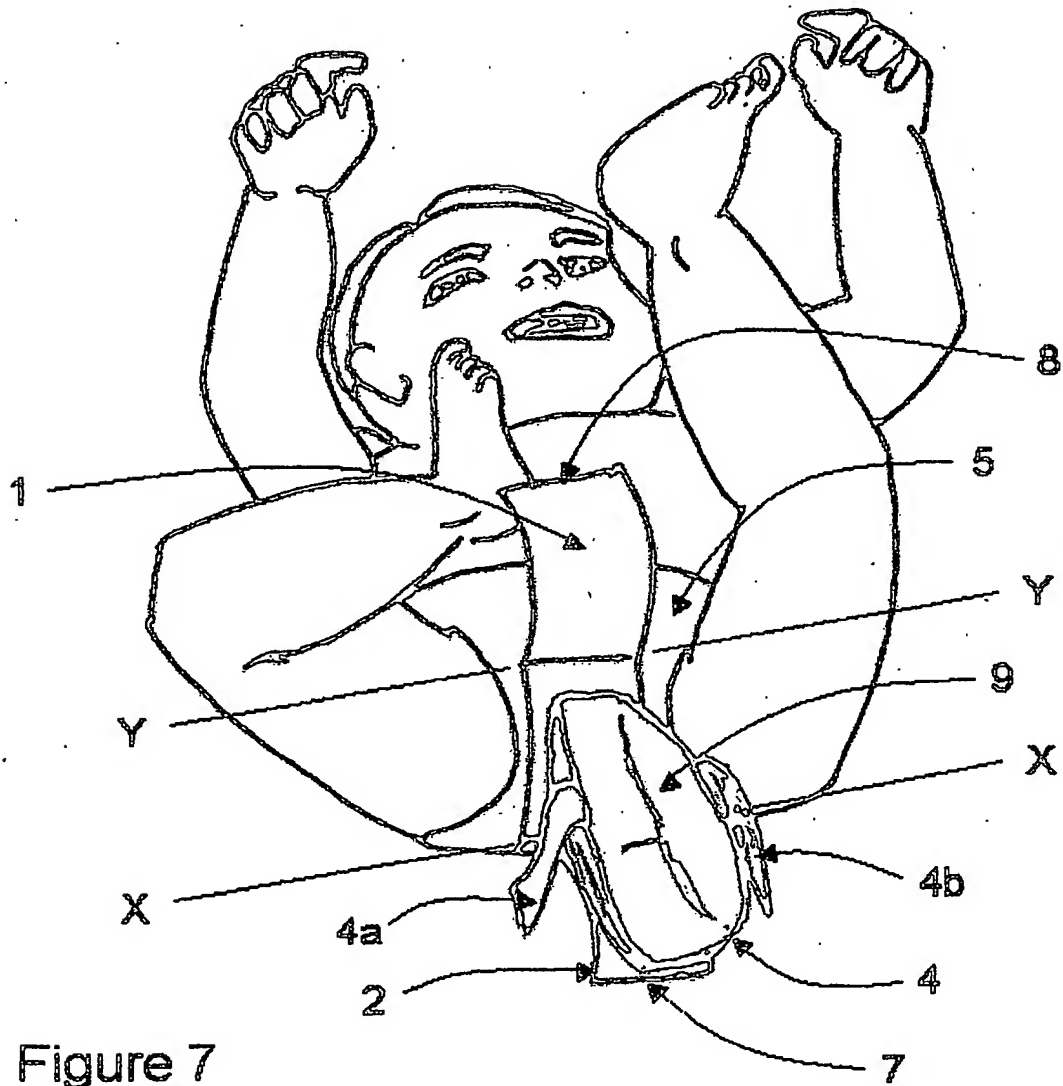


Figure 7

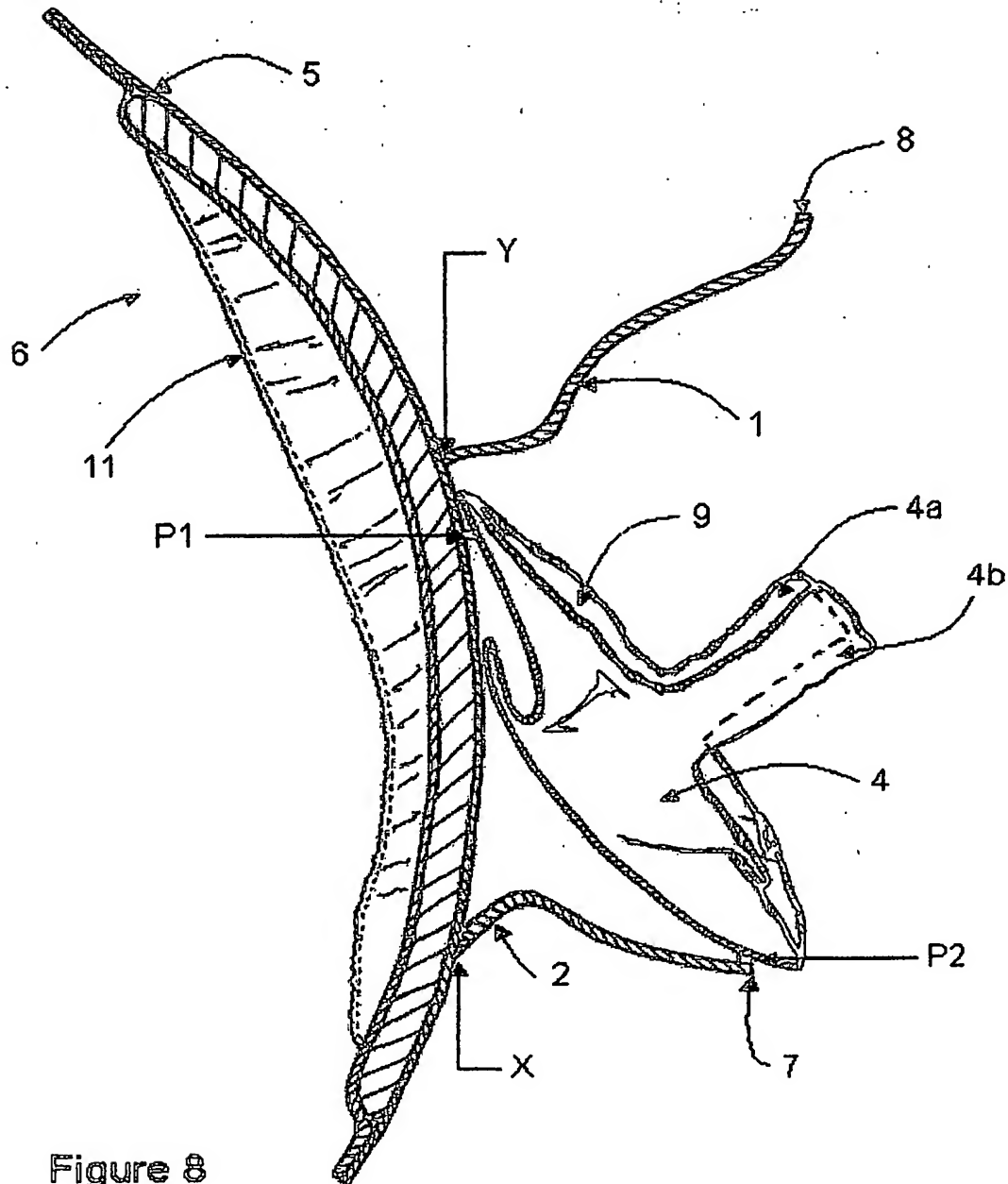


Figure 8

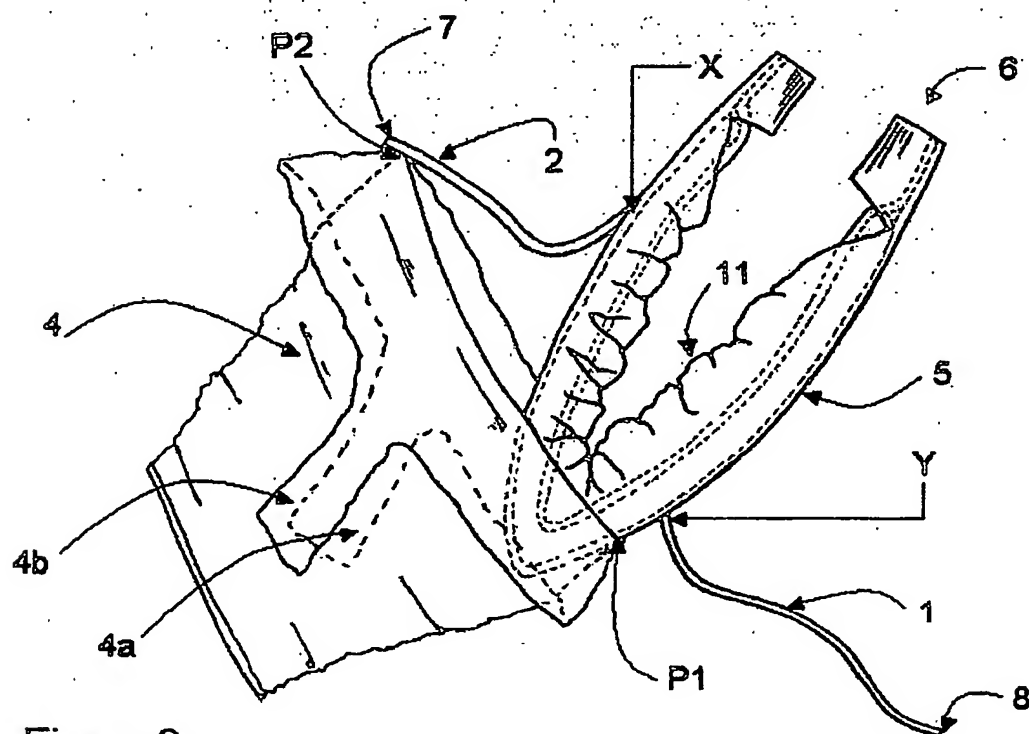


Figure 9

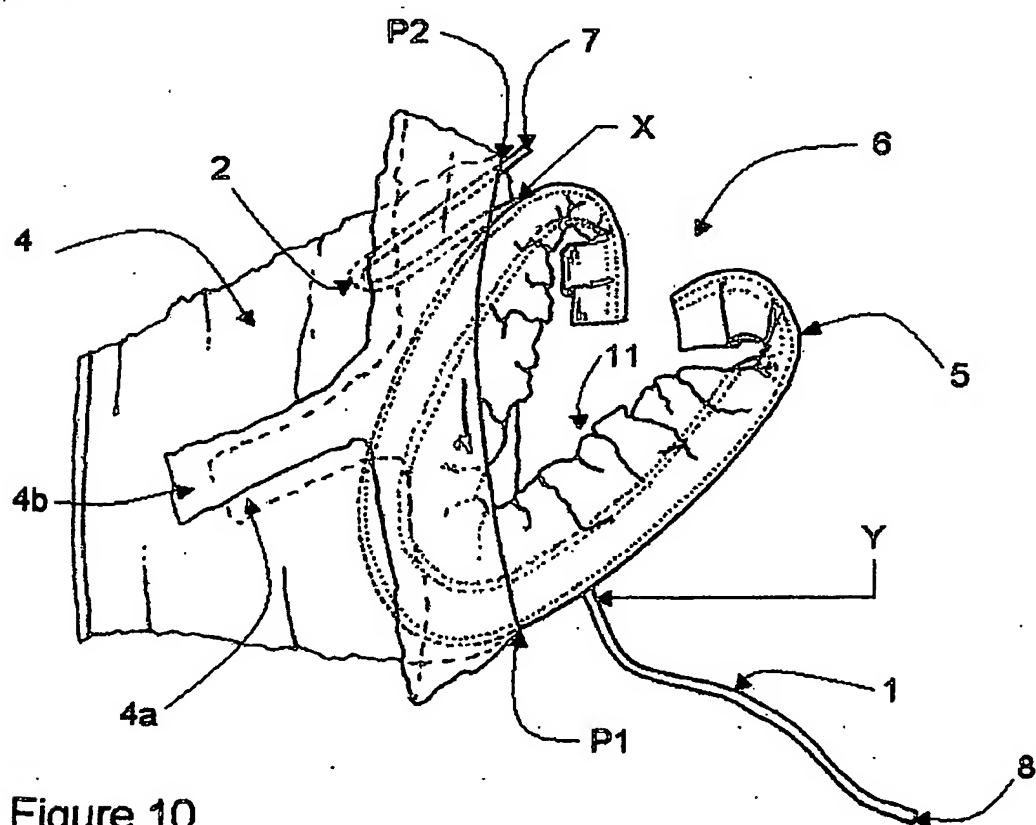


Figure 10

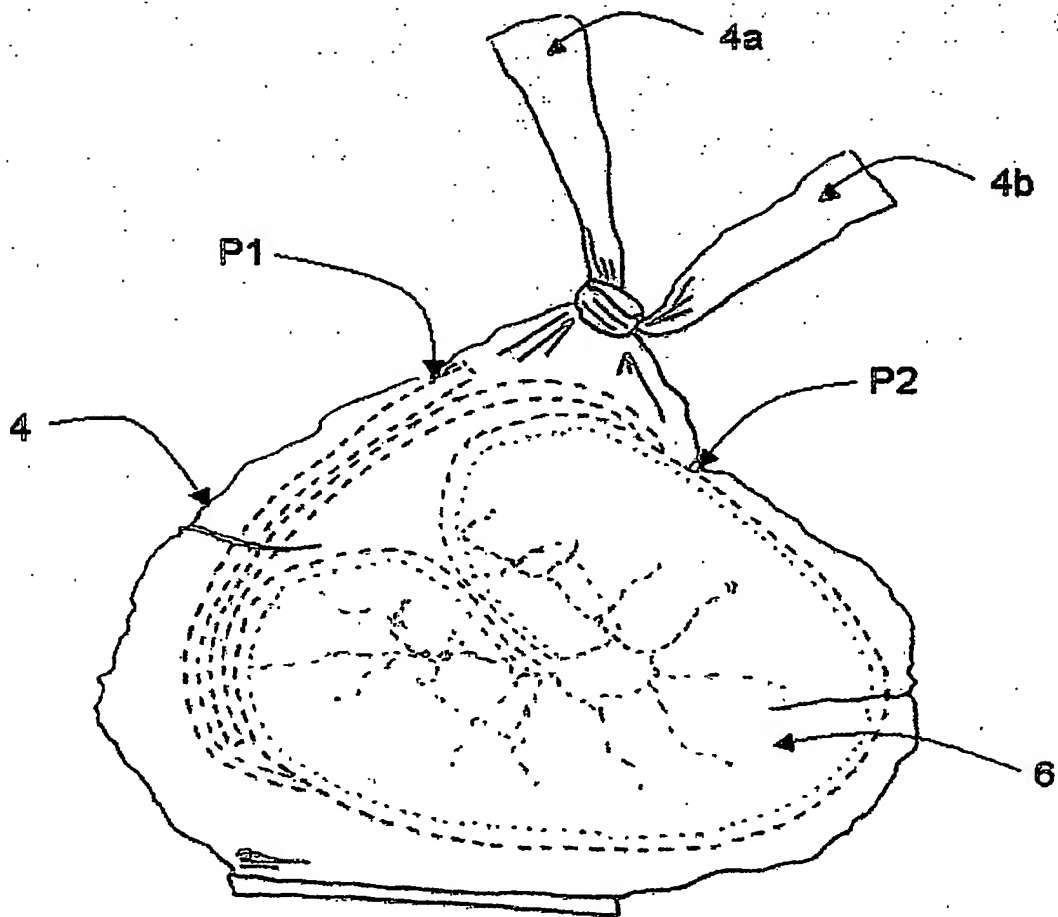


Figure 11

ABSTRACT

Disposable nappy and/or sanitary/incontinence pad 6 assembly incorporating wet baby wipes 3 and an integral bag 4 for enclosing and subsequent disposal of said soiled nappy 6 and baby wipes 3.

A nappy/diaper or sanitary/incontinence pad 6 assembly having a integral pouch 4 made of a flexible fluid impermeable material in an elongated shape aligned inline lengthways with said nappy/diaper or sanitary/incontinence pad 6 at the outside 5 bottom of said nappy/diaper or sanitary/incontinence pad 6, containing a number of wet baby wipes 3 or pre-moistened towelettes 3 in the primary compartment, and in the secondary compartment formed by the cavity created between the elongated compartment flap 2 and the impermeable outer layer 5 of the nappy/diaper or sanitary/incontinence pad 6 section, where a sealable pre formed bag 4 is situated, that is fluid and odour impermeable, in order to enclose said nappy/diaper or sanitary/incontinence pad 6 therein. Said bag is fixed to the bottom P1 and P2 of the nappy/diaper or sanitary/incontinence pad 6 through utilization of a flexible adhesive to permanently fix the bag 4 to said nappy/diaper or sanitary/incontinence pad 6. Secondary compartment can only be opened subsequent to the opening of the primary compartment.

The fluid impermeable outer layer of the secondary compartment and the fluid impermeable inner layer of the primary compartment form a sealed pocket through edging of flexible adhesive 10, where said pocket contains the pre moistened baby wipes or towelettes 3.

The nonporous bag 4 is packed in concertina fashion in a square shape under the secondary flap 2 forming the secondary compartment, where said bag 4 is fixed P2 at the side of the free end 9 of said bag 4 with a permanent adhesive to the inner top edge 7 of the secondary compartment flap 2 in order to extract said bag 4 down and wrapping around said soiled nappy/diaper or sanitary/incontinence pad 6 as the secondary flap 2 is extended down and around said nappy/diaper or sanitary/incontinence pad 6.

The other side of the free end of said bag is fixed P1 to said nappy/diaper or sanitary/incontinence pads 6 top end covered under elongated compartment flap 2.

Fixing adhesive applied 50mm from the top of the free end 9 of said bag is of flexible permanent type that withstands the releasing of said flap 1 and flap 2 to extend and envelope the nappy/diaper or sanitary/incontinence pad 6 completely. The permanent flexible type adhesive is placed at the fixing points P2 inner top end of said secondary compartment flap and the top end of the cavity P1 made by the outer nappy wall 5 and the secondary compartment wall where the second fixing point is to the top end outer nappy wall P1 in said cavity.

The fluid and odour impermeable bag 4 comprises a sealing system 4a and 4b at the free end 9 of said bag 4 in order to permanently seal said bag 4 containing the soiled pre-moistened baby wipes or towelettes 3 and the nappy/diaper or sanitary/incontinence pad 6.

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